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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/045,900	5,900 01/14/2002		Muguo Chen	eVionyx-0014USAAON00	1380		
26665	7590 09	9/08/2004		EXAMINER			
REVEO, IN	IC. IVE BOULEVA	JOHNSON, E	JOHNSON, EDWARD M				
	D, NY 10523		ART UNIT	PAPER NUMBER			
				1754	1754		
				DATE MAILED: 09/08/2004	DATE MAILED: 09/08/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

					W			
		Application I	lo.	Applicant(s)	,			
		10/045,900		CHEN, MUGUO				
Office Action Summary		Examiner		Art Unit				
		Edward M. Jo		1754				
Period fo	The MAILING DATE of this communication a or Reply	appears on the co	ver sheet with the o	correspondence addres	S			
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION Insions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a to prevent or period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by state reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, It reply within the statutory od will apply and will exitute, cause the application.	nowever, may a reply be till minimum of thirty (30) day bire SIX (6) MONTHS from on to become ABANDONE	mely filed ys will be considered timely. the mailing date of this commur (ED) (35 U.S.C. § 133).	nication.			
Status								
1)⊠	Responsive to communication(s) filed on 14	January 2002.						
• ===	2a) ☐ This action is FINAL . 2b) ☒ This action is non-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)⊠	Claim(s) 1-17 is/are pending in the application 4a) Of the above claim(s) is/are with definition of the above claim(s) is/are allowed. Claim(s) 1-7 and 9-17 is/are rejected. Claim(s) 8 is/are objected to. Claim(s) are subject to restriction and	lrawn from consid						
Applicat	ion Papers							
9)⊠	The specification is objected to by the Exami	iner.						
10)	The drawing(s) filed on is/are: a) a	ccepted or b)	objected to by the	Examiner.				
	Applicant may not request that any objection to the	he drawing(s) be h	eld in abeyance. Se	e 37 CFR 1.85(a).				
11)	Replacement drawing sheet(s) including the corr The oath or declaration is objected to by the	-	- • • •	•	• •			
Priority ι	under 35 U.S.C. § 119							
12)[a)	Acknowledgment is made of a claim for forei All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure See the attached detailed Office action for a life	ents have been re ents have been re riority documents eau (PCT Rule 1	eceived. eceived in Applicat have been receiven 7.2(a)).	ion No ed in this National Stag	e			
Attachmen		ı						
	e of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948)	4) i	Interview Summary Paper No(s)/Mail D					
3) Infon	r No(s)/Mail Date	••,		Patent Application (PTO-152))			

Art Unit: 1754

DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities: Fig. 2 is not included in the Brief Description of the Drawings.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claim 10 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 10, line 1, "the reinforcing element" lacks antecedent basis.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Art Unit: 1754

5. Claims 1-7, 9-11, and 13-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Clemens et al. US 4,379,763.

Regarding claims 1 and 17, Clemens '763 discloses a gelling treatment for radioactive waste and other wastes (see abstract and column 1, lines 24-26) comprising contacting with a polymerizable monomers (see column 4, lines 54-68) and forming a transportable gelled mass wherein the complexed contaminant is restrained within the mass (see column 2, lines 60-68), and wherein the contaminant may be extracted (see column 3, lines 12-13).

Regarding claim 2, Clemens '763 discloses hydrogel polymer (see column 10, lines 17-19).

Regarding claims 3-7, 9-11, and 15, Clemens '763 discloses crosslinked acrylonitrile, methylmethacrylates (see column 7, lines 13-14), and acrylamide (see column 2, lines 43-46).

Regarding claims 13-14, Clemens '763 discloses alcohol solvents (see column 6, lines 18-21).

Regarding claim 16, Clemens '763 discloses addition of an organic dye (see Examples 15-20).

Claims 1-7, 9-11, 13-15, and 17 are rejected under 35
 U.S.C. 102(b) as being anticipated by Bahr et al. US 4,131,563.

Art Unit: 1754

Regarding claims 1 and 17, Bahr '563 discloses a method for storing radioactive or toxic waste comprising polymerization and encapsulation of the waste into the polymer (see abstract) and separation (see column 2, lines 45-50).

Regarding claims 2, Bahr '563 discloses water swellable gels (see column 3, lines 37-46).

Regarding claims 3-7, 9-11, and 15, Bahr '563 discloses crosslinked acrylic acid and methacrylic acid (see column 1, lines 60-62).

Regarding claims 13-14, Bahr '563 discloses oleyl alcohol (see Examples 4-5).

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Clemens '763.

Regarding claim 12, Clemens '763 fails to disclose formaldehyde.

Art Unit: 1754

It is considered that it would have been obvious to one of ordinary skill in the art at the time the invention was made to use formaldehyde in the treatment process of Clemens '763 because Clemens '763 discloses formaldehyde urea having merit in solidifying radioactive waste (see column 2, lines 36-39 and 45-47).

Allowable Subject Matter

- 9. Claim 8 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 10. The following is a statement of reasons for the indication of allowable subject matter: It would not have been obvious to one of ordinary skill in the art at the time the invention was made to use one of the listed crosslinking agents of claim 8 in the method of encapsulating radioactive particles of the instant claim 8.

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. O'Brien et al. US 4,358,401 discloses solidification and disposal of radioactive waste comprising polymerization and separation (see abstract, Examples); Arnold et al. US 4,077,901 discloses

Art Unit: 1754

encapsulation of nuclear waste comprising dispersion and polymerization within a resin polymer and curing (see abstract and Examples).

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward M. Johnson whose telephone number is 571-272-1352. The examiner can normally be reached on M-F 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley S. Silverman can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Page 7

Application/Control Number: 10/045,900

Art Unit: 1754

Business Center (EBC) at 866-217-9197 (toll-free).

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Elle M. M.

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